

PLW SERIES WALL MOUNTED LITHIUM BATTERY PACK

5.12kWh/10.24kWh

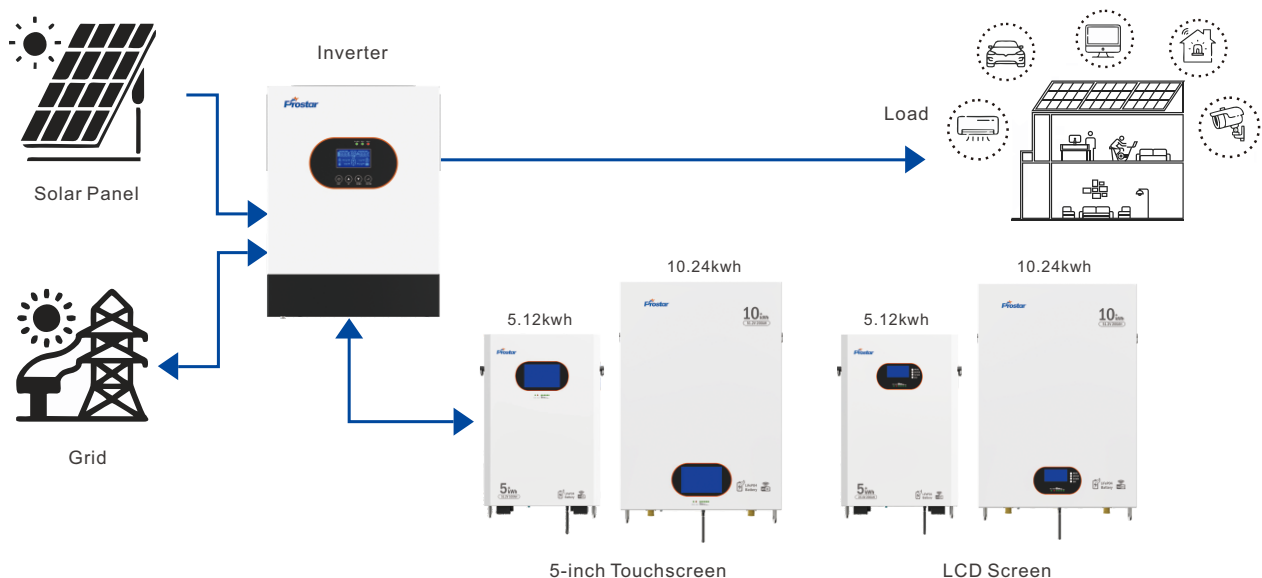


Performance Characteristics

1. 5-inch touchscreen, offering intuitive operation and clear status visibility
2. LiFePO₄ is used as the positive electrode material, offering a long cycle life and good safety performance
3. The cycle life is no less than 6000 cycles at 80% Depth of Discharge (DOD), 0.5C
4. Wall-mounted compact design, available in 5/10 kWh capacities
5. Easy plug-and-play input/output terminals for easy installation
6. System capacity available up to 143 kWh
7. The battery cell is certified with IEC and UL standards

Prostar PLW Series Wall Mounted Lithium Battery Pack is an efficient and safe energy storage solution designed for a variety of applications. With capacities of 5.12kWh to 10.24kWh, these packs are built using LiFePO₄ as the positive electrode material, which is known for its long cycle life and superior safety performance. This chemistry ensures the battery pack can endure at least 6000 cycles at 80% Depth of Discharge (DOD), making it a durable choice for long-term use. The wall-mounted design is compact, space-saving, and allows for easy installation in various settings. The system's capacity can be expanded up to 143 kWh, providing scalability to meet increasing energy storage demands. The battery cells adhere to stringent IEC and UL standards, ensuring reliability and compliance with international safety regulations.

Application Diagram



Technical Specifications

MODEL	PLW24200	PLW51100	PLW51200
Electrical Characteristics			
Rate voltage(VDC)	25.6	51.2	
Cell combination	8S2P	16S1P	16S2P
Rate capacity(Ah)	100	100	200
Energy storage(kWh)	5.12	5.12	10.24
Cycle life	6000 cycles @80% DOD,0.5C		
Charge/Discharge Standard			
Charge voltage(V)	28	56	
Max.charge current(A)	100(Optional 150/200A for 200AH pack)		
Max.discharge current(A)	100(Optional 150/200A for 200AH pack)		
Discharge cut-off voltage(VDC)	22	43.2	
Charge cut-off voltage(VDC)	29.2	58.4	
Environment			
Charge temperature	0℃ to 50℃@60±25% Relative Humidity		
Discharge temperature	-20℃ to 50℃@60±25% Relative Humidity		
Storage temperature	-20℃ to 50℃@60±25% Relative Humidity		
Mechanical			
Protection grade	IP20 (IP65 Option available for 100AH model)		
Cell	LiFePO4		
Case material	Metal		
Installation	Wall Mount		
Pack dimension L×W×H(mm)	580×390×185		690×485×226
Package dimension L×W×H(mm)	660×450×240	660×450×240	850×570×285
Net weight(Kg)	46	44	88
Gross weight(Kg)	51	49	98
Communication			
Protocol(Optional)	CANBus/RS485/RS232		
Monitoring	Bluetooth/WLAN Optional		
Certificates			
Pack	UN38.3,MSDS	CE/UN38.3/MSDS	UN38.3,MSDS
Cell	UN38.3,MSDS,IEC62619,CE,UL1973,UL2054		